

Abstract of Disclosure



[0099] A modular electronic device where (predominantly) sealed modules are aligned and attached/connected in pre-determined sequences, forming a robust block-like structure with extendable function: Control and/or inter-module communication are implemented without direct electrical interconnect, by non-contact means such as (magnetic, inductive, light, infrared, radio frequency, sound, ultrasound, or other non-contact means). This device's inter-module power transfer may be with or without direct electrical contact, or devices may be internally powered. Power transfer through inductive/transformer action where one or more alignment pins are used as transformer core is one potential implementation. Modules may be fluid filled to facilitate cooling and/or crush resistance to high-pressure environments.